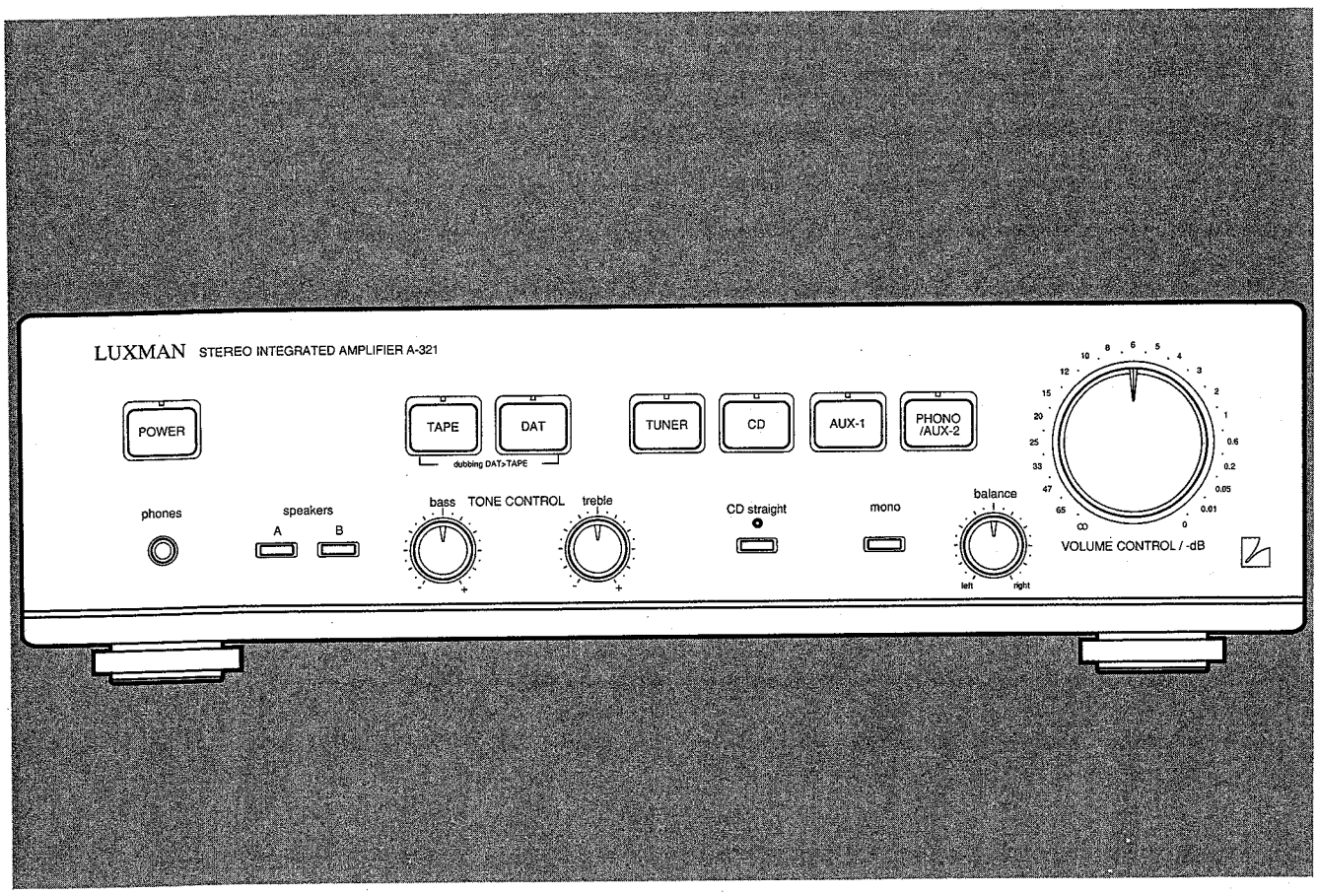
LUXMAN

A-321/A-311

Stereo Integrated Amplifier

OWNER'S MANUAL
BEDIENUNGSANLEITUNG
MODE D'EMPLOI
MANUAL DE OPERACIÓN
LIBRETTO DELLE ISTRUZIONI
BRUKSANVISNING



Safety Instructions/Vorsichtsmaßregln/Précautions de Sécurité/ Instrucciones de Seguridad/Precauzioni di Sicurezza/Säkerhetsinstruktioner

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

CAUTION: To prevent electric shock, do not use the AC plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

CAUTION: To reduce the risk of electrical shock, do not remove or open the cabinet.

ACHTUNG: Zur Verhütung von Bränden und elektrischen Schlägen dieses Gerät weder Regen noch Feuchtigkeit aussetzen.

VORSICHT: Zur Vermeidung elektrischer Schläge sollten Verlängerungskabel nur verwendet werden, wenn sich der Netzstecker fest und vollständig in die Netz- oder Anschlußsteckdose einstecken läßt, um freiliegende Steckerstifte zu vermeiden.

VORSICHT: Öffnen Sie zur Vermeidung elektrischer Schläge niemals das Gehäuse.

AVIS: Pour éviter tout risque d'incendie et d'électrocution, n'exposez pas cet appareil à la pluie ou à l'humidité.

ATTENTION: Afin d'éviter tout risque d'électrocution, n'utilisez pas de fiche polarisée avec un cordon-rallonge, une prise de courant ou autre sortie de courant sauf si les lames peuvent être insérées à fond sans en laisser aucune partie à découvert.

ATTENTION: Afin de réduire tout risque d'électrocution, n'essayez pas de démonter le coffret.

ADVERTENCIA: Para reducir el riesgo de incendios o descargas eléctricas, no exponga este aparato a la lluvia ni a la humedad.

PRECAUCIÓN: Para evitar descargas eléctricas, no emplee un enchufe de CA con un cable prolongador, toma de la red, ni tomacorriente a menos que las cuchillas puedan insertarse completamente sin que queden al descubierto.

PRECAUCIÓN: Para reducir el riesgo de descargas eléctricas, no abra la caja.

AVVISO: Per prevenire rischi di incendi o scosse non asporre l'apparecchio ad agenti atmosferici e non connettere prolunghe o prese multiple in serie al cavo di alimentazione.

ATTENZIONE: Per evitare il rischio di scosse elettriche, non usare la spina CA con una prolunga o altre prese a meno non sia possible inserire i perni della spina completamente in modo da prevenire lésposizione degli stessi.

ATTENZIONE: Per ridurre il rischio di scosse elettriche, non rimuovere o aprire il rivestimento.

VARNING: Utsätt inte apparaten för fukt eller regn, det ken resultera i farlige spänningsöverslag eller aldsväda.

ATT OBSERVERA: Anslut inte stickkontakten till en förlängningskabel eller förgreningsdosa för att undvika risken för elektriska stötar, såvida ej stickkontakten kan skjutas in helt och hållet.

ATT OBSERVERA: Ta inte av, öppna inte heller skyddskåpan, för att undvika risken för elektriska stötar

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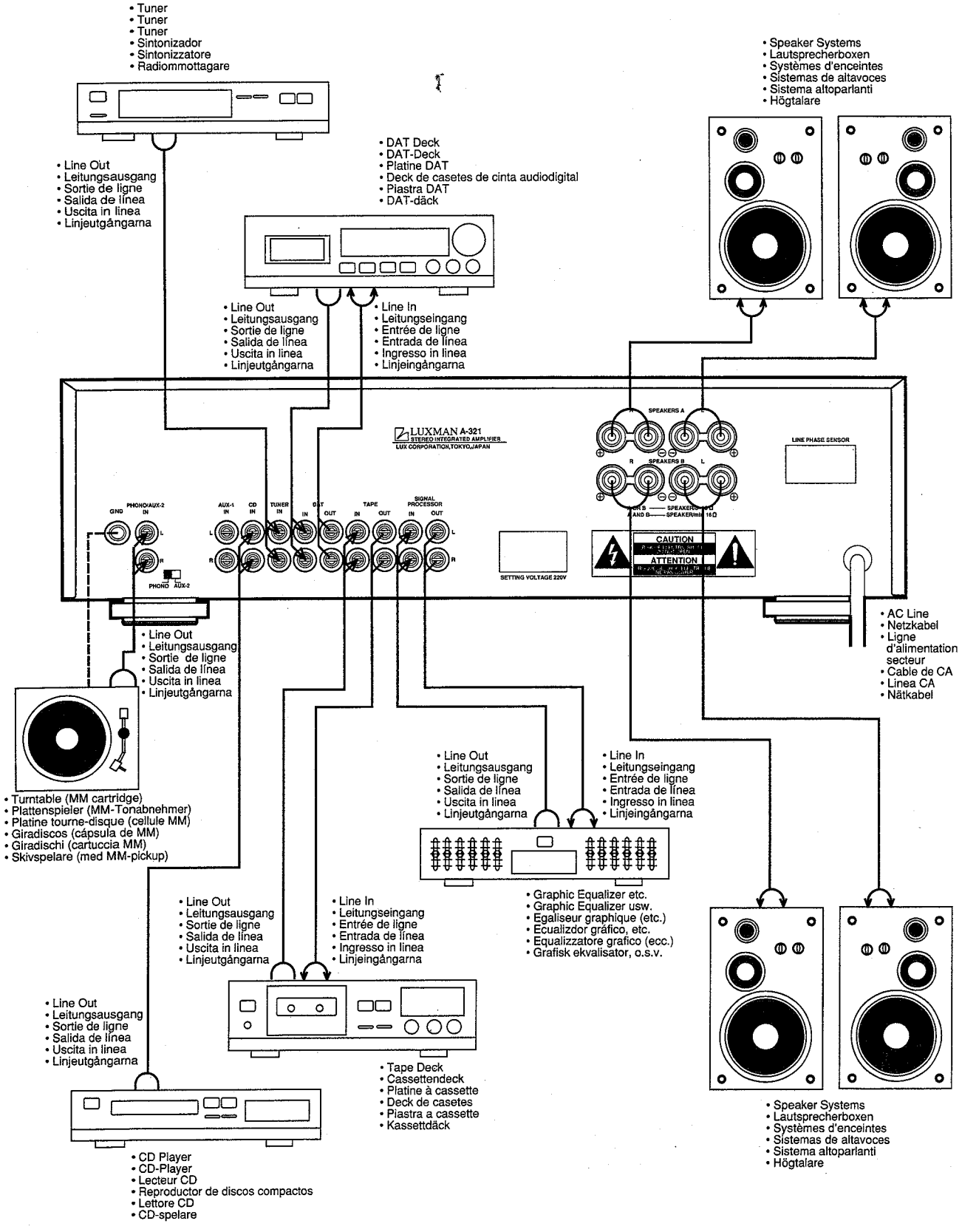
Fig. 1/Abb. 1/Ill. 1



Introduction

Welcome!

At Luxman, Ultimate Fidelity is a goal we consider most important. Your purchase of this component has told us you feel the same. We take great pride in the long tradition of excellence in sonic quality that the Luxman name represents. Now, as part of that tradition, we welcome you to the growing number of discerning audiophiles who own and operate Luxman products. This manual has been prepared to help you maximize your enjoyment of the outstanding performance and feature capabilities of your new Luxman A-321/A-311.

This integrated amplifier represents a novel concept in system and design technology for simplified system operation and high sonic quality. It has high drive power into low impedance loads, CD straight, Line Phase Sensor, high capacity supply and over-sized heatsink ... are some of the items that combine to achieve this goal.

To realize the exceptional performance for which this Amplifier is capable, it is necessary that all signal sources, and speaker systems used with it are all of the highest sonic quality. We recommend complementary Luxman components wherever possible.

Please study this manual carefully and become acquainted with all the special features, operation and capabilities of your new Luxman A-321/A-311. Should you have any questions or desire information on other Luxman products, please contact your local Luxman dealer.

When You Open the Box

Before any Luxman product leaves the factory it is carefully inspected for physical imperfections as a routine part of Luxman's systematic quality control. This, along with full electrical testing, should insure quality craftsmanship and performance. After you have unpacked the unit, inspect it for any physical damage. Save the shipping carton and all packing materials, as they are essential to reduce to a minimum the possibility of transportation damage, should the product ever need to be shipped again.
In the unlikely event that damage has occurred, notify your dealer immediately and request the name of the carrier so that a written claim to cover shipping damages can be initiated.

The right to any claim against a public carrier can be forfeited if the carrier is not notified promptly and if the shipping carton and packing material are not available for inspection. Save all packing materials until the claim has been settled.

Installation and Placement

Because some heat is generated by the Luxman A-321/A-311, adequate air circulation must be provided to maintain cool operation. Leave adequate space around the unit (at least 3 inches on the top and 1 inch on the sides and rear) for proper air circulation. Also, the Luxman A-321/A-311 should not be completely enclosed with other heat producing components. If the Luxman A-321/A-311 is going to be mounted in an enclosed cabinet, it is recommended that the rear of the cabinet have vents to allow air to circulate around the unit. With these considerations implemented, the Luxman A-321/A-311 should provide exceptional performance in any reasonable environment.

Of course, such normal considerations as protection from excessive dust and moisture should always be observed. The Luxman A-321/A-311 amplifier has been carefully designed with high quality components so that long term undiminished performance may be expected when it is operated in accordance with the instructions provided.

Connection Guidelines

Before Making Connections

It is always wise to ensure that all AC power cords of the various components that you are interconnecting are unplugged from the wall outlets during the hook-up process. This will prevent any inadvertent damage to your speakers or amplifier from incorrect control settings or connections.

Interconnecting Leads

Be sure that left and right channel identification is correct when making interconnections. Most patch cords are colour coded with RED ends for the right channel and BLACK or WHITE ends for the left channel, to make this job easier.

In addition, all jacks on the rear of the A-321/A-311 have red centres for right channel and white for left channel. When making connections, follow the Reference Illustration on page 4, referring also to the descriptions for items #12 through #23 on pages 9 and 10.

Speaker Connections

The following items should be observed carefully when connecting your speakers.

1. Be sure PHASING is correct by connecting the RED (+) and the BLACK (–) terminals of the A-321/A-311 to the RED (+) and BLACK (–) terminals of your speakers on each channel. Failure to do so will result in drastically reduced bass response and unstable, irregular stereo imaging.

2. To prevent the possibility of shorts, strip back the ends of the speaker leads about 1/2 inch and carefully twist the strands together. Loosen the speaker terminal knob by rotating it counter-clockwise. Insert the twisted end and turn the knob clockwise to tighten.

   Inspect carefully to ensure that no frayed strands exist that may cause shorts.

3. It is recommended that 16 AWG gauge wire, or larger, be used to prevent losses. You may wish to consider some of the commercially available speaker cables that are specifically designed to improve the amplifier to speaker interface.

Note on the Signal Processor Jacks

- Keep the jumper bars inserted when the "SIGNAL PROCESSOR" jacks are not in use. If the jumper bars are removed, there will be no sound output.

- Remove the jumper bars only when connecting a graphic equalizer or surround amplifier to the "SIGNAL PROCESSOR" jacks.

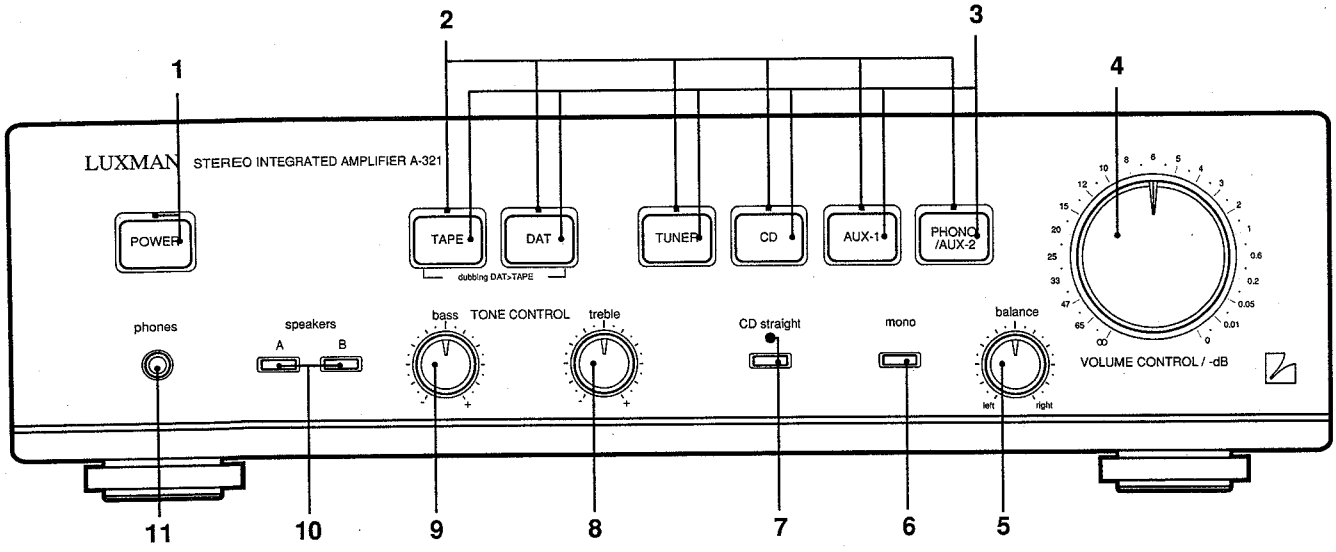
AC Power Cord

Insert the AC plug of the A-321/A-311 into an appropriate wall outlet.

CAUTION:
The Voltage Selector is located on the bottom of the unit, and Voltage Selector is set to 220V position.
To avoid a risk of electric shock, ask a qualified service personnel to change the position of the selector.

Names & Functions of Parts

Front Panel



1. 'POWER" button and indicator

Pressing this button turns the unit on and off. First, the Operation indicator lights up when this button is depressed, and then the time delay muting circuit is turned on, putting the amplifier into perfect operational condition in about 5 seconds.

2. Input Select indicators

The LED indicator for the selected input source will light up to tell which source is selected with the Input Select buttons (item #3).

3. Input Select buttons

Press one of these buttons to select any one of six sources; TAPE, DAT, TUNER, CD, AUX-1, PHONO/AUX-2.

4. "VOLUME CONTROL"

Allows precision, low noise adjustment of volume level. It is recommended that the volume control be set to a low position prior to power turn on and when switching between sources.

5. "balance" control

Adjusts for unequal volume level between channels. Normally, with today's high quality sources, it is seldom necessary to move this control from its precision centre detent position.

6. "mono" button

Place in the mono (in) position for mono sources, for balance control adjustment, for lower noise operation from high noise stereo source, or for checking speaker phasing. Otherwise, leave it in the stereo (out) position.

7. "CD straight" button and indicator

For optimum sound quality in CD operation, press this button to bypass control and switching functions.

Note:
Be sure "CD straight" button is in the OFF (out) position when using sources other than CD.

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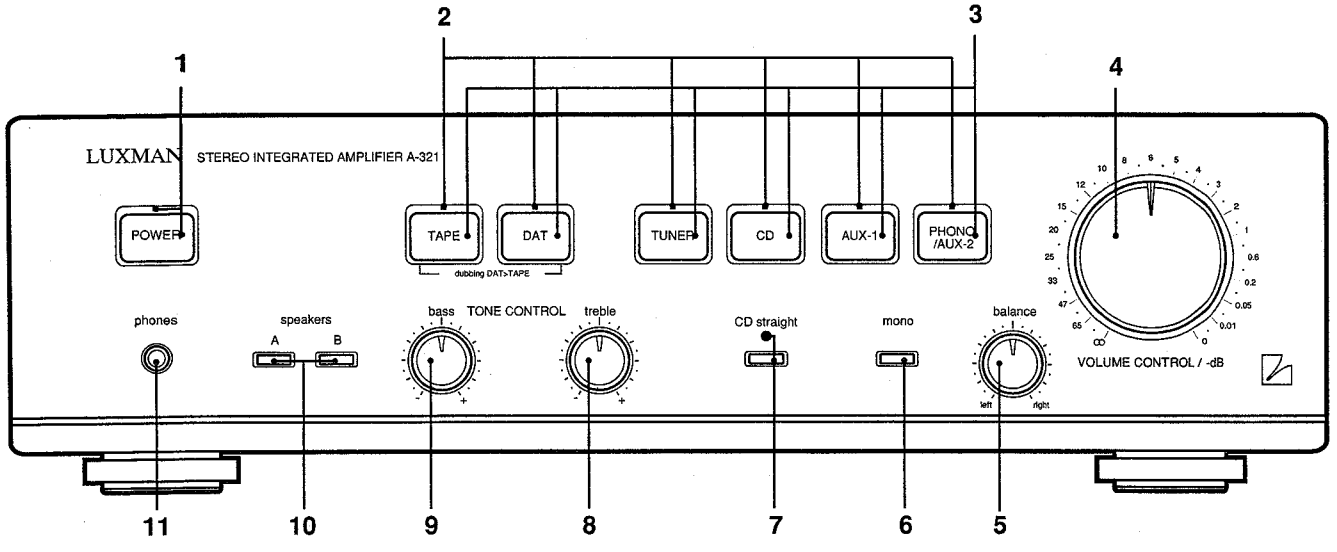
8. "treble" control

This control will increase or decrease high frequency content in the program material. At the centre detent position, a flat frequency response results.

Names & Functions of Parts



9. "bass" control

This control will increase or decrease low frequency content in the program material. At the centre detent position, a flat frequency response results.

10. "speakers A and B" buttons

Two sets of stereo speaker systems may be used with the A-321/A-311; A and B buttons corresponding with "SPEAKERS A and B" terminals (item #12) on the rear panel. You may choose independent or simultaneous operation of the two systems by using these buttons.

Note:
The impedance of each speaker system should equal or exceed 8 ohms when driving two sets at the same time.

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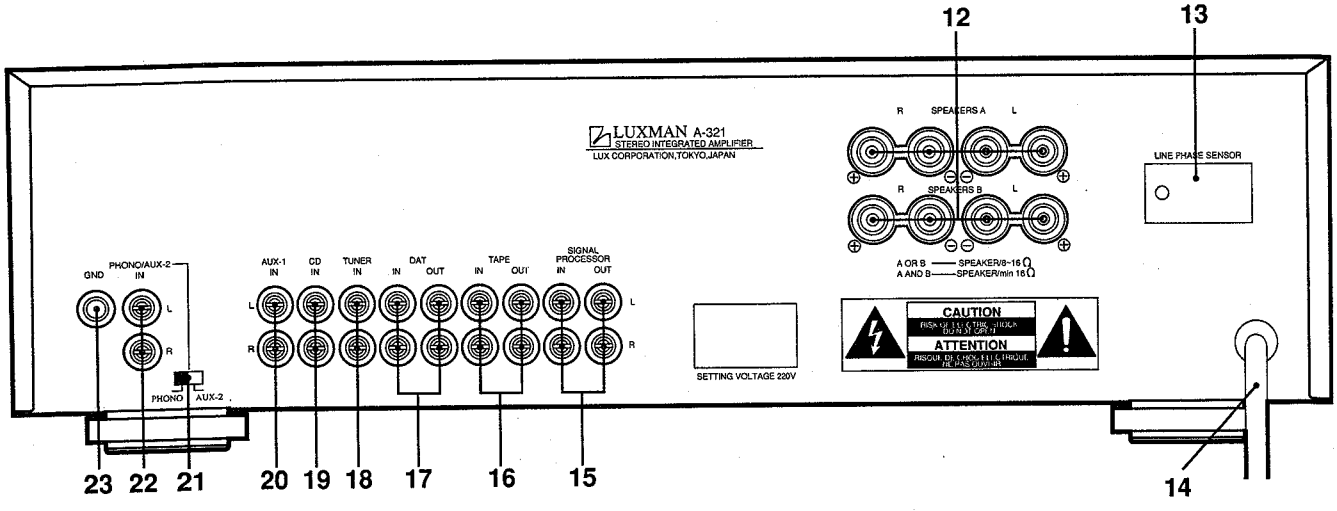
11. "phones" jack

Connection of stereophonic headphones to this jack allows private listening. There is signal at the jack at all times. Placing the "speakers A and B" buttons (item #10) in the OUT position, will allow private listening.

Names & Functions of Parts

Rear Panel



12. "SPEAKERS A and B" terminals

You may connect 2 pairs of stereo speaker systems to these terminals, one pair to the upper "A" terminals and a 2nd pair to the lower "B" terminals.

The speaker systems may be switched on and off by the front panel "speakers A and B" buttons (item #10).

13. "LINE PHASE SENSOR" indicator

When plugging the AC power cord into the wall outlet, check the polarity of the AC power cord at this sensor and indicator. When the sensor is touched after connecting the AC power cord, the polarity is correct if the indicator remains unlit. If the indicator lights up, unplug the AC power cord then plug its other side into the AC wall outlet.

Note:
Check the polarity before any other sources. If you live in a flat building where the power supply is floating, the indicator may not change status.

14. AC Power Cord

Insert the AC plug of the A-321/A-311 into an appropriate wall outlet.

15. "SIGNAL PROCESSOR IN and OUT" jacks

For connection of a surround sound processor, an equalizer or other signal processor as desired.

Note:
Jumper bars are factory installed in these jacks. They need to be removed only when connecting a processor. Retain for possible future reuse.

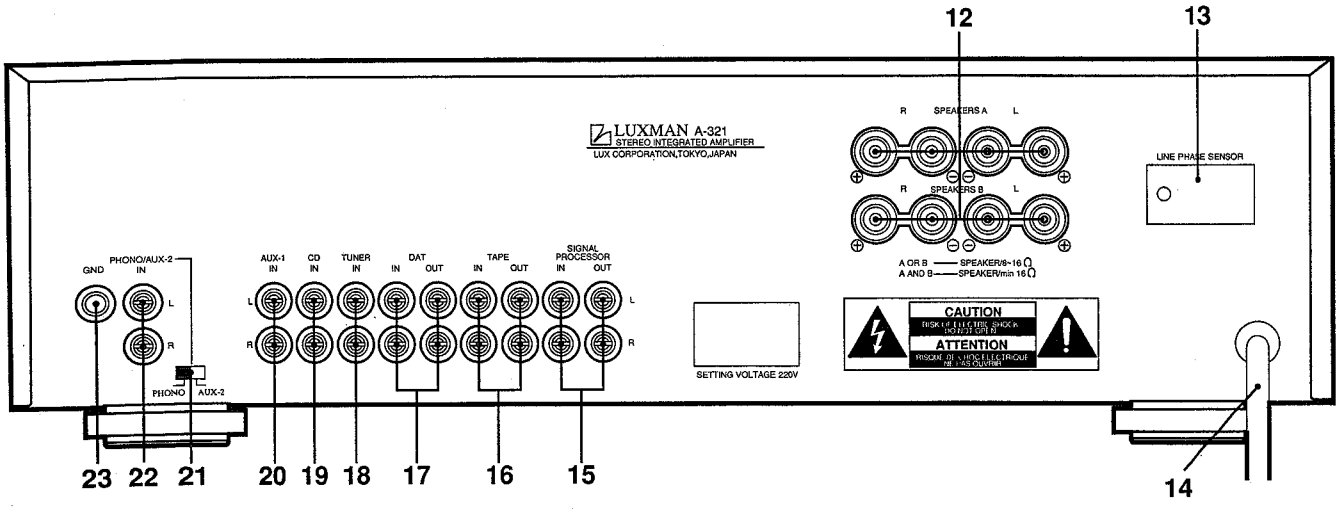
16. "TAPE IN and OUT" jacks

Connect the LINE IN and LINE OUT jacks of your audio tape deck to these OUT and IN jacks respectively.

17. "DAT IN and OUT" jacks

Connect the LINE IN and LINE OUT jacks of your DAT deck to these OUT and IN jacks respectively.

Names & Functions of Parts



18. "TUNER IN" jacks

This set of jacks is for connection of a tuner. They may also be used for any other high level signal source as well.

19. "CD IN" jacks

This set of jacks is for connection of a CD (compact disc) player. They may also be used for any other high level signal source as well.

20. "AUX-1 IN" jacks

Connect the audio output of a VCR, Video Disc Player, CD Player, Cassette Deck, etc. to the "AUX-1 IN" jacks of the A-321/A-311.

21. "PHONO/AUX-2" switch

If a phono turntable is not required in the system, this switch allows the phono jacks (item #22) to be used as an additional set of high level inputs. Move it to the "AUX-2" position for connection of an additional CD player, Tape deck, etc.

CAUTION: Be sure the volume control is set to minimum when setting this switch.

22. "PHONO/AUX-2 IN" jacks

A moving magnet (MM) type phono cartridge may be connected to these inputs. Also, they may be used as an additional set of high level inputs (see item #21).

CAUTION: When these jacks are used for high level inputs, ensure that the "PHONO/AUX-2" switch (item #21) is set to "AUX-2" to prevent possible damage to the amplifier and speakers.

23. "GND" terminal

Connect the common (ground) lead of your phono turntable to this terminal.

Operation Guidelines

The following guidelines assume that all connections have been made according to the "Reference Illustrations," page 4.

Power and Source Switching

To prevent the possibility of excessive, sudden sound levels, it is recommended that the volume control be placed at a low level position each time the power button is turned on or when switching between sources by the INPUT SELECTOR.

To Play Source Units

1. Turn the power on to all the components in use.
2. Choose your desired source with the Input Selector buttons (item #3).
3. Operate the source unit.

Tape Recording Operation

Tape Recording

1. Select the desired source to be recorded with the Input Selector buttons (item #3) and place the source unit into the play mode.
2. Operate the tape deck for recording.
3. If you have a 3 head deck or a DAT with monitoring function, you can monitor the actual recording by depressing the corresponding "TAPE" or "DAT" buttons (item #3) on the A321/A311.

Tape Dubbing

Tape dubbings from the DAT deck to the audio tape deck may be performed through the A-321/A-311.

1. Press both "DAT" and "TAPE" buttons (item #3) of the Input selector on the A-321/A-311.
2. Load a prerecorded tape into the DAT deck and a blank tape into the audio tape deck.
3. Place the DAT deck in the play mode and the audio tape deck in the recording mode. When audio tape decks are connected to the "DAT IN and OUT" jacks (item #17) on the A-321/A-311, dubbing operation can be performed from the audio tape deck connected to the DAT IN jacks to the audio tape deck connected to the DAT OUT jacks.

English

Care and Maintenance

Cleaning

The durable finish of the knobs and front panel will last indefinitely with proper care and cleaning. Never use scouring pads, steel wool, scouring powders, or harsh chemical agents, such as lye solution. These will mar the finish. Clean with a soft, lint-free cloth or cotton swab slightly dampened with a mild solution of detergent and water.

Repacking for Shipment

Should it become necessary to ship your A-321/A-311 for any reason, use the original packing materials. If these are no longer available, be sure that adequate materials, at least equivalent to the original, are used.

Repairs

Only the most competent and qualified service technicians should be allowed to service the A-321/A-311. The Luxman company and its factory-trained warranty station personnel have the knowledge and special equipment needed for repair and calibration of this precision instrument.

In the event of difficulty, call the Luxman Authorized Service Station nearest your home or business. In many cases, the dealer where you purchased your Luxman unit will be equipped to provide service.

Specifications

Audio Section

Continuous Power Output (RMS):
- (4 ohm, DIN) ..... 85W+85W
- (8 ohm, DIN) ..... 65W+65W
- (8 ohm, 20Hz to 20 kHz) ..... 50W+50W

Dynamic Power:
- 2 ohms ..... 125W+125W
- 4 ohms ..... 95W+95W
- 8 ohms ..... 70W+70W

Total Harmonic Distortion
- (1 kHz, 50W/8 ohms) 0.01%

Input Sensitivity/Impedance:
- Phono (MM) ..... 2.5 mV/47 kohms
- CD, Tape, AUX ..... 150 mV/47 kohms

Signal-to-Noise Ratio (IHF "A"):
- Phono (MM) ..... 82 dB
- CD, Tape, AUX ..... 97 dB

Frequency Response:
- Phono (RIAA) ..... 20 Hz to 20 kHz (±0.5 dB)
- CD, Tape, AUX ..... 10 Hz to 60 kHz (±1 dB)

Tone Control Range:
- Bass (at 100 Hz) ..... ±10 dB
- Treble (at 10 kHz) ..... ±10 dB

General

Power Supply ..... 220/240V, 50 Hz

Dimensions (W × H × D) ..... 438 × 125 × 363 mm

Weight:
- (Net) ..... 8.3 kg
- (Gross) ..... 9.5 kg

Design and specifications are subject to change without notice.

Notes

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68P21552W56-O
Printed in Korea
Imprimé en Corée